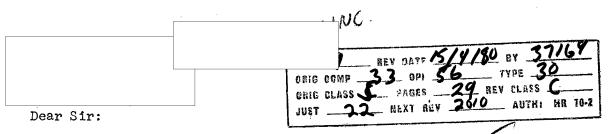
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Transmitted herewith is a memorandum describing final acceptance tests conducted with respect to Divisions 1, 2, and 3 of the microwave system.

A general conclusion reached with respect to Divisions 1, 2, and 3 is that fundamentally the system is satisfactory and should be accepted. However, some concern exists with respect to "maintenance" aspects of the system. Attention is called specifically to a variation in the quality of teletype circuits. The acceptance tests show that with respect to the poorer type circuits multiple patching is not generally practical. However, improvement could be obtained by substitution of tubes and relays.

With respect to the maintenance problem, it was the view of the representatives of the manufacturer that in general the equipment in these Divisions has been installed for a considerable period of time and therefore may be in need of some maintenance to bring all of it up to top performance. This is particularly pertinent to the teletype equipment which has been constantly in one position of operation, that is the equipment has not been shifting between the "mark" position and the "space" position as it would normally if the circuits were in operational use. It has been the position of the representatives of the customer that problems of a strictly maintenance nature which involve no fundamental difficulty can be handled best in a routine maintenance manner by the customer where they involve merely bringing an operating circuit up to top performance. This is considered preferable to incurring the expense which would be associated with having the manufacturers representatives perform such a maintenance.

Inasmuch as some concern does exist with respect to the exact reasons for the variation in the teletype circuits of Divisions 1, 2, and 3, it is suggested that formal acceptance of Divisions 1, 2, and 3 await the final acceptance tests on Division 4. In connection with the tests of Division 4, a determination will be made as to the performance of equipment which has been recently installed and in that respect differs from the equipment in the other Divisions. If the teletype circuits in this Division show the same variation in performance as occurred in the case of the other Divisions, a determination should be,

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we think they should, then ivisions 1, 2, and 3, that	the conclusion reached	
e qualifications stated abouts for Divisions 1, 2, and	ove, the attached report 3 is submitted.	
Ve	ery truly yours,	
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\ -	act reason for this. On the we think they should, then ivisions 1, 2, and 3, that confirmed. e qualifications stated about for Divisions 1, 2, and	act reason for this. On the other hand, if the cirwe think they should, then the conclusion reached ivisions 1, 2, and 3, that this is a maintenance

JJR:mfb Attachments

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